MILOŠ S. KURILIĆ: CURRICULUM VITAE

Personal Data

- Date and place of birth: April 29, 1960, Novi Sad, Yugoslavia
- Citizenship: Serbia

Education

- 1979-1982 Electro-engineering, Faculty of Technical Sciences, University of Novi Sad (UNS)
- 1982-1986 Degree in Mathematics, Faculty of Science, UNS
- 1993 Magister degree in Mathematics, Faculty of Science, UNS
- 1994 Ph.D. degree in Mathematics, Faculty of Science, UNS

ACADEMIC WORK

Academic titles

- 1988-1995 Assistant, Faculty of Science, University of Novi Sad (UNS)
- 1995-1999 Assistant Professor, Faculty of Science, UNS
- 1999-2004 Associate Professor, Faculty of Science, UNS
- Since 2004 Full Professor, Faculty of Science, UNS
- 2001-present, Chairman of the Chair for Functional Analysis, Geometry and Topology, Faculty of Science, UNS.

Teaching courses

- General Topology
- Algebraic Topology
- Functional Analysis
- Real Analysis

Thesis supervision

- Aleksandar Pavlović,
  Sequential topologies on Boolean algebras,
  PhD thesis, Faculty of Science, Novi Sad, (2009).
- Boris Šobot,
  Games on Boolean algebras,
  PhD thesis, Faculty of Science, Novi Sad, (2009).

- Boriša Kuzeljević,
  Partial orderings of isomorphic substructures of relational structures,
  PhD thesis, Faculty of Science, Novi Sad, (2014), (in Serbian).
- Nenad Morača,
  Condensational order, condensational equivalence and reversibility of relational structures,
  PhD thesis, Faculty of Science, Novi Sad, (2018), (in Serbian).
- Aleksandar Pavlović,
  Topologies induced by linear orders,
  Magister Thesis, Faculty of Science, Novi Sad, (2002), (in Serbian).
- Nada Perić,
  Some ideals on the set of integers and the corresponding invariants of the continuum,
  Magister Thesis, Faculty of Science, Novi Sad, (2005), (in Serbian).
- Bojan Nikolić,
  Spaces of Topologies,
  Magister Thesis, Faculty of Science, Novi Sad, (2010), (in Serbian).
- About 20 Master Theses

RESEARCH

Area of Research

- Set Theory
- Model Theory
- General Topology

Project Leading

- 2002-2005, Project MNTRS No 111768, "Forcing, Model Theory and Set-Theoretic Topology"
- 2006-2010, Project MNŽS No 144001, "Forcing, Model Theory and Set-Theoretic Topology 2"
- 2011-2019, Project MPNTR No 174006, "Set Theory, Model Theory and Set-Theoretic Topology"
- 2004-2005, Project "Set Theory, Ultraproducts and Forcing" (bilateral cooperation "Pavle Savić" Serbia - France), with Boban Veličković
- 2009-2010, Project "The relationships between the algebraic, topological and forcing related properties of complete Boolean algebras" (bilateral cooperation MNTRS, Serbia and CNRS, France) with Stevo Todorčević

Visiting research positions

- Visiting Fellow at the Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, Research Programme "Mathematical, Foundational and Computational Aspects of the Higher Infinite",
  September – October 2015.

- Visiting Fellow at the Université Paris Diderot – Paris 7, July – August 2016.
- Research stay at the Banff International Research Station for Mathematical Innovation and Discovery, Bannf, Alberta, Canada. Research programme "Unifying Themes in Ramsey Theory", November 18–23, 2018.
- Research stay at the Department of Mathematics, University of Toronto, Canada, November 23–December 1, 2018.

Membership in Programme Committees of international conferences

- 12th Serbian Mathematical Congress, Novi Sad, (2008)
- LogTop 2012, University of Novi Sad, (2012)
- The 4th Novi Sad Algebraic Conference (NSAC 2013), Novi Sad, (2013)
- Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014)
- Novi Sad Conference in Set Theory and General Topology, N. Sad, (2016)
- Novi Sad Conference in Set Theory and General Topology, N. Sad, (2018)
- Novi Sad Conference in Set Theory and General Topology, N. Sad, (2020)
- Young Set Theory Workshop, N. Sad, (2020) (postponed for 2021)

Miscellaneous

- A member of the Association for Symbolic Logic (ASL) and European Set Theory Society (ESTS)
- The vice-president of the Expert Group for Mathematics and Mechanics of The Ministry of Science and Technological Development of Serbia
- A member of the Editorial Board of *Publications de l'Institut Mathématique (Belgrade)* and *Novi Sad Journal of Mathematics*
- A referee for: Fundamenta Mathematicae, Order, Publications de l'Institut Mathématique (Belgrade), Novi Sad Journal of Mathematics.
- A reviewer for Zentralblatt

Papers

2020 M. S. Kurilić,
Vaught's conjecture for theories admitting finite monomorphic decompositions,
Fund. Math. (in print)

2020 M. S. Kurilić, N. Morača,
Reversibility of disconnected structures,
Algebra Universalis (in print)

2020 M. S. Kurilić, B. Kuzeljević,
Positive families and Boolean chains of copies of ultrahomogeneous structures,
C. R. Math. Acad. Sci. Paris 358,7 (2020) 791–796.

2020 M. S. Kurilić, N. Morača,
Reversibility of extreme relational structures,
Arch. Math. Logic 59,5-6 (2020) 565–582.

2020 M. S. Kurilić, S. Todorčević,
Posets of copies of countable non-scattered labeled linear orders,
Order 37,1 (2020) 59–72.

2020 M. S. Kurilić, N. Morača,
Reversible disjoint unions of well orders and their inverses,
Order 37,1 (2020) 73-81.

2019 M. S. Kurilić,
Vaught's conjecture for monomorphic theories,
Ann. Pure Appl. Logic 170,8 (2019) 910–920.

2019 M. S. Kurilić, A. Pavlović,
The left, the right and the sequential topology on Boolean algebras,
Filomat 33,14 (2019) 4451-4459.

2017 M. S. Kurilić,
Retractions of reversible structures,
J. Symbolic Logic, 82,4 (2017) 1422–1437.

2017 M. S. Kurilić, N. Morača,
Condensational equivalence, equimorphism, elementary equivalence and similar similarities,
Ann. Pure Appl. Logic, 168,6 (2017) 1210-1223.

2017 M. S. Kurilić, S. Todorčević,
Copies of the random graph,
Adv. Math., 317 (2017) 526–552.

2017 M. S. Kurilić,
The minimal size of infinite maximal antichains in direct products of partial orders,
Order 34,2 (2017) 235–251.

2016 M. S. Kurilić, B. Šobot,
Four games on complete Boolean algebras,
Filomat 30,13 (2016) 3389-3395.

2016 M. S. Kurilić, S. Todorčević,
The poset of all copies of the random graph satisfies the 2-localization property,
Ann. Pure Appl. Logic, 167,8 (2016) 649-662.

2015 M. S. Kurilić, P. Marković,
Maximal antichains of isomorphic subgraphs of the Rado Graph,
Filomat 29,9 (2015) 1919–1923.

2015 M. S. Kurilić,
Different similarities,
Arch. Math. Logic, 54 (2015) 839-859.

2015 M. S. Kurilić,
Forcing with copies of countable ordinals,
Proc. Amer. Math. Soc., 143,4 (2015) 1771-1784.

2015 M. S. Kurilić,
Posets of isomorphic substructures of relational structures,
Zb. Rad.(Beogr.) 17(25) (2015)
Selected Topics in Combinatorial Analysis, 117-144.

2015 M. S. Kurilić, B. Kuzeljević,
Maximal chains of isomorphic suborders of countable ultrahomogeneous partial orders,
Order, 32,1 (2015) 83-99.

2015 M. S. Kurilić,
Isomorphic and strongly connected components,
Arch. Math. Logic, 54,1-2 (2015) 35-48.

2014 M. S. Kurilić, A. Pavlović,
A convergence on Boolean algebras generalizing the convergence on the Aleksandrov cube,
Czechoslovak Math. J., 64,2 (2014) 519–537.

2014 M. S. Kurilić, B. Kuzeljević,
Maximal chains of isomorphic subgraphs of countable ultrahomogeneous graphs,
Adv. Math., 264 (2014) 762–775.

2014 M. S. Kurilić,
From A1 to D5: Towards a Forcing-Related Classification of Relational Structures,
J. Symbolic Logic, 79,1 (2014) 279-295.

2014 M. S. Kurilić,
Posets of copies of countable scattered linear orders,
Ann. Pure Appl. Logic, 165,3 (2014) 895–912.

2013 M. S. Kurilić,
Maximally embeddable components.
Arch. Math. Logic, 52,7-8 (2013) 793–808.

2013 M. S. Kurilić, B. Kuzeljević,
Maximal chains of isomorphic subgraphs of the Rado graph,
Acta Math. Hungar. 141,1-2 (2013) 1–10.

2013 M. S. Kurilić, A. Pavlović,
The convergence of the sequences coding the ground model reals,
Publ. Math. Debrecen 82,2 (2013) 277–292.

2013 M. S. Kurilić,
Maximal chains of copies of the rational line,
Order, 30,3 (2013) 737–748.

2012 M. S. Kurilić, S. Todorčević,
Forcing by non-scattered sets,
Ann. Pure Appl. Logic 163,9 (2012) 1299–1308.

2012 M. S. Kurilić,
Maximal chains in positive subfamilies of $P(\omega)$,
Order 29 (2012) 119–129.

2010 M. S. Kurilić, A. Pavlović,
Some forcing related convergence structures on complete Boolean algebras,
Novi Sad J. Math. 40,2 (2010) 77–94.

2009 M. S. Kurilić, A. Pavlović,
The uniqueness and universality of a generalized ordered space,
Novi Sad J. Math. 39,2 (2009) 1–5.

2009 M. S. Kurilić, S. Todorčević,
Property ($\hbar$) and cellularity of complete Boolean algebras,
Arch. Math. Logic 48,8 (2009) 705-718.

2009 M. S. Kurilić, B. Šobot,
A game on Boolean algebras describing the collapse of the continuum,
Ann. Pure Appl. Logic, 160 (2009) 117–126.

2008 M. S. Kurilić, B. Šobot,
Power-collapsing games,
J. Symbolic Logic, 73,4 (2008) 1433-1457.

2007 M. S. Kurilić, A. Pavlović,
A posteriori convergence in complete Boolean algebras with the sequential topology,
Ann. Pure Appl. Logic, 148 (1-3)(2007) 49–62.

2007 M. S. Kurilić,
Splitting families and forcing,
Ann. Pure Appl. Logic, 145 (3)(2007) 240–251.

2005 M. S. Kurilić,
Is each Boolean algebra, B, $h_2(B)$-unsupported?,
Proceedings of The 5th Panhellenic Logic Symposium (dedicated to Y. N. Moschovakis), University of Athens, Athens, 2005, 87-92.

2005 M. S. Kurilić, A. Pavlović,
Topologies generated by closed intervals,
Novi Sad J. Math., 35 (1) (2005) 187–195.

2005 M. S. Kurilić,
MAD families, forcing and the Suslin Hypothesis,
Arch. Math. Logic, 44 (2005) 499–512.

2005 M. S. Kurilić,
On topological ultraproducts,
Publ. Math. Debrecen, 66 (3-4) (2005) 449–455.

2004 M. S. Kurilić,
Unsupported Boolean algebras and forcing,
Math. Logic Quart., 50,6 (2004) 594–602.

2004 M. S. Kurilić, A. Pavlović,
A consequence of the Proper Forcing Axiom in topology,
Publ. Math. Debrecen, 64 (2004) 15–20.

2003 M. S. Kurilić,
Independence of Boolean algebras and forcing,
Ann. Pure Appl. Logic, 124 (2003) 179–191.

2003 M. S. Kurilić,
Changing cofinalities and collapsing cardinals in models of set theory,
Ann. Pure Appl. Logic, 120 (2003) 225–236.

2001 M. Z. Grulović, M. S. Kurilić,
The Feferman-Vaught theorem for reduced ideal-products,
Novi Sad J. Math., 31,2 (2001) 1–8.

2001 M. S. Kurilić,
Cohen–stable families of subsets of the integers,
J. Symbolic Logic, 66,1 (2001) 257-270.

2000 M. S. Kurilić,
Paraopen spaces - a class of peculiar spaces,
Publ. Math. Debrecen, 57, 1-2 (2000) 39–54.

1998 M. S. Kurilić,
Topological ultraproducts: when is the quotient mapping closed?,
Topol. Appl., 87, (1998) 89–95.

1998 M. Budinčević, M. S. Kurilić,
A family of strict and discontinuous triangular norms,
Fuzzy Sets and Systems, 95, (1998) 381–384.

1997 M. Z. Grulović, M. S. Kurilić,
On separatedness of reduced ideal-products,
Indian J. Pure Appl. Math., 28(7), (1997) 921–927.

1996 M. S. Kurilić, M. Z. Grulović,
L_t-Horn sentences and reduced products,
Publ. Math. Debrecen, 48, 1-2 (1996) 175–190.

1996 M. S. Kurilić,
The space of functions with a limit at each point,
Novi Sad J. Math., 26,2 (1996) 151–159.

1995 M. Z. Grulović, M. S. Kurilić,
A few remarks on reduced ideal-products,
Publ. Inst. Math. Beograd, 57(71), (1995) 155–164.

1995 M. S. Kurilić,
Properties of topological n-partitions,
Univ. u N. Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat., 25,2 (1995) 31–47.

1994 M. S. Kurilić,
Openness of the reduced ideal-product,
Math. Japonica, 39.2, (1994) 305–308.

1993 M. S. Kurilić,
n-partitions of topological spaces,
Univ. u N. Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat., 23,1 (1993) 121–134.

1992 M. Z. Grulović, M. S. Kurilić,
On preservation of separation axioms in products,
Comment. Math. Univ. Carol., 33,4 (1992) 713–721.

1992 M. S. Kurilić,
Disconnectedness of the reduced ideal-product,
Indian J. Pure Appl. Math., 23,9 (1992) 619–624.

1991 M. S. Kurilić,
The nucleus of a lattice,
Univ. u N. Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat., 21,2 (1991) 13–21.

Submitted papers

2019 M. S. Kurilić, B. Kuzeljević,
Antichains of copies of ultrahomogeneous structures (submitted)
http://arxiv.org/abs/1904.00656

2019 M. S. Kurilić, Vaught's conjecture for almost chainable theories, (submitted)
http://arxiv.org/abs/1905.05531

2018 M. S. Kurilić, S. Todorčević,
Forcing with copies of ultrahomogeneous tournaments, (submitted)

2018 M. S. Kurilić, N. Morača,
Reversible sequences of cardinals, reversible equivalence relations, and similar structures, (submitted)
https://arxiv.org/abs/1709.09492

2018 M. S. Kurilić, N. Morača,
Reversibiliy of disconnected structures (submitted)
http://arxiv.org/abs/1711.01426

2018 M. S. Kurilić,
Back and forth systems of condensations, (submitted)
https://arxiv.org/abs/1807.00338

Theses

- M. S. Kurilić,
Reduced ideal-product of topological spaces,
PhD. Thesis, Faculty of Science, Novi Sad, (1994), (in Serbian).
- M. S. Kurilić,
Properties of topological n–partitions,
Magister Thesis, Faculty of Science, Novi Sad, (1993), (in Serbian).

Invited lectures

1. M. S. Kurilić,
   The condensation order,
   BLAST 2011, University of Kansas, Lawrence, USA, (2011).
2. M. S. Kurilić,
   Different similarities,
   INFTY Final Conference: Set Theory: foundations and applications,
   Hausdorff Center for Mathematics, Bonn, (2014).
3. M. S. Kurilić,
   Strongly connected components,
   Kurt Gödel Research Center for Mathematical Logic, Vienna (2014).
4. M. S. Kurilić,
   Reversibility of definable relations,
   Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, October 6, 2015.
   http://www.newton.ac.uk/seminar/20151006150016002
5. M. S. Kurilić,
   Relational structures: forcing by copies of reducts of definitional expansions,
   6th European Set Theory Conference, July 3-7, 2017,
   Alfred Renyi Institute of Mathematics, Budapest.
6. M. S. Kurilić,
   Vaught's conjecture for monomorphic theories,
   Unifying Themes in Ramsey Theory, November 18-23, 2018,
   Banff International Research Station for Mathematical Innovation and Discovery, Bannf, Alberta, Canada.
7. M. S. Kurilić,
   Combimatorics meets model theory: Vaught's conjecture for monomorphic theories,
   Fields Institute for Research in Mathematical Sciences, Toronto, Canada, Set Theory Seminar, November 30, 2018.

Conferences

1. M. S. Kurilić,
   Vaught's conjecture for almost chainable theories,
   7th European Set Theory Conference, July 1-5, 2019,
   Kurt Gödel Research Centre, Institute of Mathematics, University of Vienna.
2. M. S. Kurilić, *N. Morača*,
   Reversible sequences of natural numbers and reversibility of some disconnected binary structures,
   Novi Sad Conference in Set Theory and General Topology (SETTOP), July 2-5, 2018, PMF Novi Sad
3. M. S. Kurilić, *A. Pavlović*,
   On the sequence convergence of the Cantor and Aleksandrov cube on an

arbitrary complete Boolean algebra,
Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014).

4. M. S. Kurilić, *N. Morača*,
The condensation order on Rel(X),
Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014).
5. M. S. Kurilić, *B. Bašić*,
The algebra $\mathbb{B}(\mathcal{O})$,
Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014).
6. M. S. Kurilić, *B. Kuzeljević*,
Maximal chains of isomorphic substructures of ultrahomogeneous relational structures,
Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014).
7. M. S. Kurilić,
Posets of copies, embedding monoids and interpretability of relational structures,
Novi Sad Conference in Set Theory and General Topology, N. Sad, (2014).
8. M. S. Kurilić, *B. Kuzeljević*,
On the structure of countable ultrahomogeneous partial orders,
INFTY Final Conference: Set Theory: foundations and applications, Bonn, (2014).
9. M. S. Kurilić, *A. Pavlović*,
On generalizations of the Cantor and Aleksandrov cube,
The 4th Novi Sad Algebraic Conference (NSAC 2013), Novi Sad, (2013).
10. M. S. Kurilić, *B. Kuzeljević*,
Maximal chains of isomorphic subgraphs of the Rado graph,
LogTop 2012, University of Novi Sad, (2012).
11. M. S. Kurilić, *A. Pavlović*,
Characterization of closed sets in the topology $\mathcal{O}_{\lambda_{ls}}$,
LogTop 2012, University of Novi Sad, (2012).
12. M. S. Kurilić,
Towards a forcing-related classification of relational structures,
LogTop 2012, University of Novi Sad, (2012).
13. M. Kurilić, *B. Šobot*,
A game on Boolean algebras,
Conference in Honor of Andras Hajnal's 80th Birthday: Infinite and finite sets, Rényi Institute, Budapest, Hungary (2011).
14. M. Kurilić, *A. Pavlović*,
Forcing related convergences of sequences on complete Boolean algebras,
Conference in Honor of Andras Hajnal's 80th Birthday: Infinite and finite sets, Rényi Institute, Budapest, Hungary (2011).
15. *M. S. Kurilić*, S. Todorčević,
Forcing by elementary substructures of the rational line,
Logic Colloquium 2010, Paris, (2010).

16. M. S. Kurilić, *A. Pavlović*,
Topologies on Boolean algebras generated by sequential convergence,
Logic Colloquium 2010, Paris, (2010).

17. M. S. Kurilić,
Compact sets of reals and maximal chains of elementary substructures of the rational line,
Generalized Functions - Special Edition, Novi Sad, (2010).

18. *M. S. Kurilić*, S. Todorčević,
Property $(\hbar)$ and cellularity of complete Boolean algebras,
The 3rd Novi Sad Algebraic Conference, Novi Sad, (2009).

19. M. S. Kurilić, A. Pavlović,
The topology $\mathcal{O}\uparrow$ on complete Boolean algebras,
12th Serbian Mathematical Congress, Novi Sad, (2008).

20. M. S. Kurilić, B. Šobot,
Power-collapsing games,
12th Serbian Mathematical Congress, Novi Sad, (2008).

21. M. S. Kurilić, B. Šobot,
A game on Boolean algebras describing the collapse of the continuum,
12th Serbian Mathematical Congress, Novi Sad, (2008).

22. M. S. Kurilić,
Logic and Set Theory,
Dani logike u Novom Sadu, Novi Sad, (2005).

23. M. S. Kurilić,
Splitting families and forcing,
Logic Colloquium '05, Athens, (2005).

24. M. S. Kurilić,
Is each Boolean algebra, B, $h_2(B)$-unsupported?,
5th Panhellenic Logic Symposium (dedicated to Y. N. Moschovakis), Athens, (2005).

25. M. S. Kurilić,
Some topological operators on R and their application in set theory,
The Relevance of Logic, Conference in Memory of Aleksandar Kron, Belgrade, (2005).

26. M. S. Kurilić,
Ultrafilters in models of set theory,
Logic Colloquium '04, Torino, *Bull. Symbolic Logic*.

27. M. S. Kurilić,
Mad families, forcing and the Suslin hypothesis,
The Barcelona Conference on Set Theory, Barcelona, (2003).

28. M. S. Kurilić,
Partial orderings and ultrafilters,
Novi Sad Algebraic Conference '03, Novi Sad, (2003).

29. M. S. Kurilić, A. Pavlović,
An application of "Back and Forth" and PFA in topology,
4th Panhellenic Logic Symposium, Thessaloniki, (2003).
30. M. S. Kurilić,
Boolean algebras and forcing,
Logic Colloquium '02, Münster, *Bull. Symbolic Logic* 9,1 (2003) 97.
31. M. S. Kurilić,
Unsupported Boolean algebras and forcing,
Logic Colloquium '01, Vienna, *Bull. Symbolic Logic* 8,1 (2002) 146.
32. M. S. Kurilić,
Properties of families of sets preserved in forcing extensions,
6th Barcelona Logic Meeting, Barcelona, (2000).
33. M. S. Kurilić, M. Budinčević,
On strictly increasing and discontinuous triangular norms,
X Conference on Applied Mathematics, Budva, 1996.
34. M. S. Kurilić
Topological ultraproducts,
Kurepa Symposium, Beograd, (1996).
35. M. Grulović, M. S. Kurilić,
Neki rezultati iz topološke teorije modela,
9th Congress of Yugoslav mathematicians, Petrovac,(1995) 41-42.
36. M. Grulović, M. S. Kurilić,
Notes on reduced ideal-products,
International conference on Algebra, Logic and Discrete Mathematics, Niš,(1995) 41-42.
37. M. Grulović, M. S. Kurilić,
Some Results on Reduced Ideal-products,
Logic Colloquium '95, Haifa, Israel,(1995) (Abstracts of the Conference, Mod-14).
38. M. S. Kurilić,
Topological properties of reduced ideal-products,
Seventh Prague Topological Symposium, Prague, (1991).
39. M. S. Kurilić,
On homeomorphic subspaces of a topological space,
Fifth International Conference Topology and its applications, Dubrovnik, (1990).
40. M. S. Kurilić,
The nucleus of a lattice,
J. Bolyai Soc. Colloquium on ordered sets, Szeged, (1985) 18.

Contact

Address: Department of Mathematics and Informatics, Faculty of Science, University of Novi Sad, Trg Dositeja Obradovića 4, 21000 Novi Sad, Serbia.

Phone: (+381) 21 485 2853
Email: milos@dmi.uns.ac.rs